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DATE MAILED: 12/08/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,035	08/27/2003	Larry Kim	JAM-03002/29	5122
7590 12/08/2005			EXAMINER	
John G. Posa			NGUYEN, KHANH V	
Gifford, Krass, Groh, Sprinkle, Anderson & Citkowski, P.C.			ART UNIT	PAPER NUMBER
280 N. Old Woodward Ave., Suite 400			2817	
Birmingham, MI 48009-5394			DATE MAILED: 12/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A
	Application No.	Applicant(s)
	10/649,035	KIRN, LARRY
Office Action Summary	Examiner	Art Unit
	Khanh V. Nguyen	2817
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RIWHICHEVER IS LONGER, FROM THE MAILIN: Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI FR 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MOI statute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on (03 October 2005.	
	This action is non-final.	
3) Since this application is in condition for all	owance except for formal mat	ters, prosecution as to the merits is
closed in accordance with the practice und	der <i>Ex par</i> te Q <i>uayle</i> , 1935 C.D	D. 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1,4 and 5</u> is/are pending in the ap	oplication.	
4a) Of the above claim(s) is/are with	ndrawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1 and 4</u> is/are rejected.		
7) Claim(s) <u>5</u> is/are objected to.		
8) Claim(s) are subject to restriction a	nd/or election requirement.	
Application Papers	•	
9) The specification is objected to by the Example 1	miner.	
10)⊠ The drawing(s) filed on 21 March 2005 is/a	are: a)⊡ accepted or b)⊠ ob	jected to by the Examiner.
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the co	· · · · · · · · · · · · · · · · · · ·	•
11) ☐ The oath or declaration is objected to by th	e Examiner. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119	•	
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
1. Certified copies of the priority document	ments have been received.	
2. Certified copies of the priority docur	ments have been received in A	Application No
3. Copies of the certified copies of the	•	received in this National Stage
application from the International Bu	, , , , , , , , , , , , , , , , , , , ,	
* See the attached detailed Office action for a	a list of the certified copies not	t received.
Attachment(c)		
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)
2) Notice of Praftsperson's Patent Drawing Review (PTO-948		(s)/Mail Date

Paper No(s)/Mail Date _____.

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

6) Other:

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

Drawings

In order to avoid abandonment, the drawing informalities noted in the paper mailed on June 01, 2005, must now be corrected. Correction can only be effected in the manner set forth in the above noted paper. Note, The newly submitted drawing Fig. 1 filed on March 21, 2005, voltage divider (123, 124) wasn't label.

Claim Objections

Claims 1, 4 are objected to because of the following informalities:

Regarding claim 1, page 2, line 5, "course- and fine-resolution data" should correctly be -- course-resolution data and fine-resolution data --.

Regarding claim 4, "the supply rail" should correctly be -- a supply rail --.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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<u>,</u>

Claims 1, 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Kirn (6,492,868).

Regarding claim 1, Kirn (Figs. 5, 3) discloses a multi-reference switching amplifier having a pulse width modulator (302) comprises a plurality of references (V+ and Ground), wherein the schematic of the pulse width modulator (302) is disclosed in Fig. 5, which comprising: a data separator (506) operative to separate the input data stream into coarse-resolution data and fine-resolution data; a pulse width converter (513) receiving coarse-resolution data (COARSE) can be read as a circuitry for modulating a first one of the references on one side of the load (311) as a function of the coarse-resolution data; and a pulse width converter (514) receiving fine-resolution data (FINE) can be read as a circuitry for modulating a second one of the references on the other side of the load (311) as a function of the fine-resolution data;

Regarding claim 4, wherein voltage supply (V+) can be read as the first one of the references, which is a supply rail.

Allowable Subject Matter

Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 5 calls for, among others, the second one of the references is derived through a voltage divider.

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C.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional reference (Kirn (6,509,793)) shows further analogous prior art circuitry switching amplifier having pulse width modulation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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